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NOTICE OF ALLOWANCE AND FEE(S) DUE

32997

7590

02/11/2004

TUNG & ASSOCIATES 838 WEST LONG LAKE, SUITE 120 BLOOMFIELD HILLS, MI 48302 EXAMINER MILLER, PATRICK L

ART UNIT PAPER NUMBER

2837

DATE MAILED: 02/11/2004

ſ	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION	
-	10/063.151	03/26/2002	Hemant S. Shah	201-0171 CLH	2725

TITLE OF INVENTION: FAN SHROUD WITH BUILT IN NOISE REDUCTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/11/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This for appropriate. All further corrindicated unless corrected b maintenance fee notifications	n should be used for transnespondence including the Pa elow or directed otherwise in 5.	nitting the ISSUE tent, advance order Block 1, by (a)	FEE and PUBLI ers and notification specifying a new	CATION FEE (if red of maintenance fees correspondence address	quired). Blocks I through 4 s will be mailed to the current ss; and/or (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE	ADDRESS (Note: Legibly mark-up v	with any corrections or u	ise Block 1)	Note: A certificate of Fee(s) Transmittal.	of mailing can only be used for this certificate cannot be used mal paper such as an assignment	or domestic mailings of the for any other accompanying
32997 759	90 02/11/2004		•	have its own certific	nal paper, such as an assignme ate of mailing or transmission.	on or rounar drawing, must
TUNG & ASSOC 838 WEST LONG I BLOOMFIELD HII	LAKE, SUITE 120			I hereby certify that States Postal Service addressed to the M	ertificate of Mailing or Trans this Fee(s) Transmittal is bein e with sufficient postage for fir ail Stop ISSUE FEE address SPTO, on the date indicated bel	g deposited with the United st class mail in an envelope above, or being facsimile
				transmitted to the Os	SF 10, on the date indicated bei	(Depositor's name)
				-		(Signature)
						(Date)
APPLICATION NO.	FILING DATE	F	IRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,151	03/26/2002		Hemant S. Shal		201-0171 CLH	2725
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nonprovisional	NO	\$1330		\$300	\$1630	05/11/2004
EXAMI	NER	ART UNIT	г с	CLASS-SUBCLASS	٦	
MILLER, PA	ATRICK L	2837	<u>.</u>	181-198000	_	
CFR 1.363). Change of corresponder Address form PTO/SB/12 "Fee Address" indication	address or indication of "Fee nce address (or Change of Co 2) attached. or (or "Fee Address" Indication or more recent) attached. Use of	rrespondence	names of up to agents OR, alter firm (having as agent) and the n	a the patent front pag 3 registered patent natively, (2) the name a member a registered ames of up to 2 regists. If no name is list	attorneys or 1e of a single d attorney or 2stered patent	
PLEASE NOTE: Unless a	to the USPTO or is being sul	w, no assignee dat bmitted under sepa	ta will appear on the	e patent. Inclusion of	assignee data is only appropri OT a substitute for filing an ass OUNTRY)	ate when an assignment has ignment.
Please check the appropriate	assignee category or categorie	es (will not be prin	nted on the patent);	□ individual □	corporation or other private gr	oup entity 🚨 government
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☐ Issue Fee				nount of the fee(s) is e t card. Form PTO-203		
☐ Publication Fee☐ Advance Order - # of C	Copies		☐ The Director is	hereby authorized by	charge the required fee(s), or	credit any overpayment, to
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(Authorized Signature)		(Date)				
other than the applicant; a interest as shown by the rec	Publication Fee (if required registered attorney or agen ords of the United States Pate	t; or the assignee nt and Trademark	or other party in Office.			
estimated to take 12 minute completed application form case. Any comments on t suggestions for reducing th Patent and Trademark O 22313-1450. DO NOT SE SEND TO: Commissioner f Under the Paperwork Red	ion is required by 37 CFR 1 y the public which is to file is governed by 35 U.S.C. 122 is to complete, including gath to the USPTO. Time will he amount of time you recise burden, should be sent to office, U.S. Department of END FEES OR COMPLETION PATENTS, Alexandria, Virgir uction Act of 1995, no pelless it displays a valid OMBelless	nering, preparing, vary depending uquire to complete the Chief Information Commerce, AleED FORMS TO hia 22313-1450.	and submitting the pon the individual to this form and/or ation Officer, U.S. exandria, Virginia THIS ADDRESS.			



UNITED STATES PATENT AND TRADEMARK OFFICE

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TUNG & ASS		-	MILLER, P	MILLER, PATRICK L		
838 WEST LON BLOOMFIELD				ART UNIT	PAPER NUMBER	
2200				2837		
				DATE MAILED: 02/11/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)					
	10/063,151	SHAH ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Patrick Miller	2837					
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not included nunication will be mailed in due co-	urse. THIS				
1. \boxtimes This communication is responsive to $\underline{1/7/04}$.							
2. X The allowed claim(s) is/are 14-16,19-29 and 35.							
3. \boxtimes The drawings filed on <u>03 March 2003</u> are accepted by the	Examiner.						
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 							
	Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF				
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 							
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF B	FERIAL must be submitted. No IOLOGICAL MATERIAL.	te the				
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No 7. Examiner	nformal Patent Application (PTO- Summary (PTO-413), n/Mail Date s Amendment/Comment s Statement of Reasons for Allowa					

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DETAILED ACTION

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1. The Examiner has received the after final amendment. Said amendment has been entered.

Allowable Subject Matter

- 2. Claims 14-16, 19-29, and 35 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
 - Takeda (JP 11-093670) discloses a fan shroud with an outer barrel that attenuates acoustic noise.
 - Takeshita (6,390,770) discloses a fan shroud with a pipes extending between the outer barrel's opening and a hollow cavity, wherein the pipes extend perpendicular from the airflow.
 - Periyathamby et al (6,309,176) discloses a noise attenuating sound absorber with a plurality of Helmholtz resonators positioned on the fan shroud to attenuate noise created in the airflow path.
 - Ngo (6,244,817) discloses a fan noise controller that has two fluid pipes extending from the outer barrel in parallel with the airflow.
 - With respect to claim 14, the primary reason for allowance is because the Prior Art does not disclose a system for noise reduction with the specific limitations disclosed, that is used with a plurality of fans, wherein each fan has an outer barrel.
 - With respect to claim 19, the primary reason for allowance is because the Prior Art does not disclose communicating air from within an outer barrel of an air-moving device to a cavity within an opening that reduces airflow noise by resonating an air plug.

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• With respect to claim 21, the Prior Art discloses pipes extending between the outer barrel's opening and the hollow cavity, however, the primary reason for allowance is because the Prior Art does not disclose the pipes being generally spiral.

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- With respect to claim 35, the Prior Art discloses pipes extending between the outer barrel's opening and the hollow cavity, however, the primary reason for allowance is because the Prior Art does not disclose the pipes extending parallel to the airflow.
- 4. Therefore, based on the arguments and amendments presented by the Applicant, the Examiner acknowledges the Prior Art fails to make obvious the Applicant's claimed invention.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Miller whose telephone number is 571-272-2070. The examiner can normally be reached on M-F, 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi can be reached on 571-272-2800 ext 37. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

Patrick Miller Examiner Art Unit 2837 Page 4

pm February 5, 2004

RINA DUDA
PRIMARY EXAMINER